

TSPAN8 (H-37): sc-292058

BACKGROUND

TSPAN8 (tetraspanin 8), also known as TM4SF3 or CO-029, is a 237 amino acid multi-pass membrane protein that belongs to the tetraspanin family of transmembrane proteins and is thought to play a role in signal transduction events that influence cell development, activation, growth and motility. Localized to the cell membrane, TSPAN8 is expressed in colon, gastric, renal and pancreatic cancers, strongly suggesting a role in cancer formation and metastasis. The gene encoding TSPAN8 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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4. Berditchevski, F. 2001. Complexes of tetraspanins with integrins: more than meets the eye. *J. Cell Sci.* 114: 4143-4151.
5. Kanetaka, K., et al. 2001. Overexpression of tetraspanin CO-029 in hepatocellular carcinoma. *J. Hepatol.* 35: 637-642.
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CHROMOSOMAL LOCATION

Genetic locus: TSPAN8 (human) mapping to 12q21.1; Tspan8 (mouse) mapping to 10 D2.

SOURCE

TSPAN8 (H-37) is a rabbit polyclonal antibody raised against amino acids 201-237 mapping at the C-terminus of TSPAN8 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TSPAN8 (H-37) is recommended for detection of TSPAN8 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TSPAN8 siRNA (h): sc-95856, TSPAN8 siRNA (m): sc-154731, TSPAN8 shRNA Plasmid (h): sc-95856-SH, TSPAN8 shRNA Plasmid (m): sc-154731-SH, TSPAN8 shRNA (h) Lentiviral Particles: sc-95856-V and TSPAN8 shRNA (m) Lentiviral Particles: sc-154731-V.

Molecular Weight of TSPAN8: 27 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
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 Guaranteed

Try **TSPAN8 (1E5): sc-293317**, our highly recommended monoclonal alternative to TSPAN8 (H-37).